

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A hybridization method comprising

simultaneously hybridizing multiple specimens using a microarray,

wherein said microarray is formed by arranging, on a glass slide, a plurality of hydrophilic regions, and wherein a hydrophobic region is formed around the arranged plurality of hydrophilic regions on the glass slide

wherein a plurality of probe biopolymers are spotted and immobilized to the plurality of hydrophilic regions and wherein no probe biopolymer is immobilized to the hydrophobic region,

wherein said hybridization step further comprises

hybridizing a sample biopolymer and the probe biopolymers in a closed vessel containing a solution having the same vapor pressure as a solution containing the sample biopolymer,

wherein the solution containing the sample biopolymer is in contact with the hydrophilic regions on the glass slide

~~contacting a solution comprising a sample biopolymer with only a glass slide, wherein a probe biopolymer is immobilized to the glass slide,~~

~~placing the glass slide into a vessel comprising a solution, wherein a difference in a vapor pressure between the vessel solution and the solution comprising the sample biopolymer is the difference in the vapor pressure produced as a difference in molar concentration ranging from 10% to +8% between solutes in the vessel solution and the solution comprising the sample biopolymer, and wherein the vessel solution is not in contact with the solution comprising the sample biopolymer;~~

~~closing the vessel;~~

~~hybridizing the sample biopolymer and the probe biopolymer.~~

2.-3. (Canceled)

4. (Withdrawn) A hybridization microarray to be applied to the hybridization according to claim 1, formed by arranging a plurality of hydrophilic regions to which a plurality of probe biopolymers are immobilized with a hydrophobic region to which no probe biopolymer is immobilized formed around the arranged plurality of hydrophilic regions.

5. (Withdrawn) A hybridization kit to be applied to the hybridization according to claim 1, comprising: a microarray formed by arranging a plurality of hydrophilic regions to which a plurality of probe biopolymers are immobilized with a hydrophobic region to which no probe biopolymer is immobilized formed around the arranged plurality of hydrophilic regions; and a closed vessel having an internal space capable of storing said microarray.

6. (Previously Presented) The hybridization method of claim 1, wherein a volume of solution in the closed vessel is at least five times the quantity of the solution comprising the sample biopolymer.

7. (Previously Presented) The hybridization method of claim 1, wherein the sample biopolymer is selected from the group consisting of DNA, RNA, peptide and protein.

8. (Previously Presented) The hybridization method of claim 1, wherein the probe biopolymer is selected from the group consisting of DNA, RNA, peptide and protein.